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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/772,260	02/06/2004	Toshihiro Ifuku	03500.017882	4439	
5514	7590 08/25/2005		EXAM	EXAMINER	
	CK CELLA HARPER	AGUIRRECHEA, JAYDI A			
• • • • • • • • • • • • • • • • • • • •	30 ROCKEFELLER PLAZA NEW YORK, NY 10112			PAPER NUMBER	
	,		2834		
			DATE MAILED: 08/25/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/772,260	IFUKU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jaydi A. Aguirrechea	2834			
The MAILING DATE of this communication ap	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be ti ply within the statutory minimum of thirty (30) da I will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDON	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		•			
1)⊠ Responsive to communication(s) filed on 05 M	March 2005.				
	is action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on 06 February 2004 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Examination.	re: a) \square accepted or b) \boxtimes objected or b) \bowtie objected drawing(s) be held in abeyance. Section is required if the drawing(s) is obtained.	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received in Applicatority documents have been received.	ion No ed in this National Stage			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>3/04</u>. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the ferroelectric film having a plurality of crystal faces must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Figure 5 is not described.

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities: The description of elements 1-15 is not found in the specification.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 5. Claims 1-25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
 - o It is not clear what Applicants mean by "an epitaxial ferroelectric thin film that has a plurality of crystal faces"
 - o It is not clear what Applicants mean by the relation z/z_o>1.003 wherein a crystal face parallel to a crystal face of a surface of said substrate, among the crystal faces of said epitaxial ferroelectric thin film, is taken as a Z crystal face...
 - o It is not clear what Applicants mean by ...a face spacing of the Z crystal face is taken as z and a face spacing of the Z crystal face of a material constituting said epitaxial ferroelectric thin film...
 - \circ What are z, z_0 , x and x_0 ? Are they dimensionless? What physical meaning do they have?
- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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o It is not clear what are the metes and bounds from the claim language and what subject matter the claims encompass, as explained above.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The claims and the disclosure are so indefinite that their relationship to the prior art cannot be made at this time. When they are made definite such a consideration may be made. However, references with relevance to the background of the invention have been cited. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaydi A. Aguirrechea whose telephone number is 571-272-2018. The examiner can normally be reached on M-Th 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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